WELL SUMMARY

Location ID: BLM-27-270	Field Repre	sentative(s): <u>G. Cont</u> <u>J. C</u>	taldo, D. Menzie hapman-Fahey	-
Date Started: 05/01/91		Date Completed: 0	8/08/91	
Northing: <u>228847.832</u>		Easting: 412395.864		
Brass Cap: <u>4729.75</u>	Outer Casing: 4'	730.27	Inner Casing: 473	0.95
Drilling Method: Mud and Air/Fo	am Rotary	_Drilling Contractor	: Larjon Drilling (Co
Driller: J. Gower				
Total Depth Borehole:343.	.33'	Total Depth Well	Casing: <u>285.08' G.</u>	<u>S</u>
Total Depth Surface Casing:	56'	_		
Diameter Well Casing: 4"		Diameter Surface (Casing:10"	
Length of Bottom Blank:5.26	5'			
Type of Screen: Regular str	ength 0.02	slot		
Screen Interval: 270'	to280'			
Water First Detected: not detected	ed while drilling	Water Level Open	Borehole: 232.38	7 T.O.D.
Water Level Cased Borehole: 228	8.77 TOC (07/15/	91)	<u>(07/08/</u>	<u>91)</u>
Quik-Foam Use: 5.5 gal.				
Estimated Water Use: 7200 gallo	ns			
Well Casing:				
4in x 3ft SCD 40 PVC:		stock SS ce		
4in x 5ft SCD 40 PVC:			centralizers: yes	
4in x 10ft SCD 40 PVC: 4in x 20ft SCD 40 PVC:		4"x2" SS 100 4" SS locki	cking riser: 1 ng cap: 1	
Total SCD 40 PVC pipe: ft		4" SS fema		ft
Total BOD 40 I vo pipe.			gth 10' screen: 10	ft
4in x 3ft SCD 5 SS pipe:				
4in x 5ft SCD 5 SS pipe: 1			SCD 10 SS pipe:	
4in x 10ft SCD 5 SS pipe:			SCD 10 SS pipe:	27
4in x 20ft SCD 5 SS pipe: Total SCD 5 SS pipe: 5	ft		SCD 10 SS pipe: 10 SS pipe:	270 ft
Total SCD 5 SS pipe: 5	11	Total SCD	to oo pipe.	270 1

Well Completion:

100# bags 16/40 sand:	15	bags
100# bags 10/20 sand:		bags
100# bags 8/14 sand:		bags
100# bags 8/20 sand:	13	bags
100# bags #3 sand:	30	bags

94# bags cement:

100 bags

5 gal. buckets bentonite:

buckets

50# bentonite powder:

bags

Benseal:

bags

Surface Casing:

94# bags cement:

30 bags

1

0

50# bags bentonite powder: 3

bags

Grout:

05/01/91

bags

Pertinent Field Notes:

05/02/91	Drilled from 40'-56' with 121/4 bit. Reamed borehole to 56' using 16" ream bit Contaldo
05/03/91	Set 10" surface casing to 56' (G.S.). Grouted surface casing to ground surface Contaldo
06/24/91	Steam clean and mobilize BE rig and air/foam rotary equipment to site Menzie
06/25/91	Drilled 56'-85' with 9 7/8" tri-cone button bit, blew air-hose, fried filters, quit for day because replacement filter are the wrong ones Menzie

Drilled to 40' with 121/4" bit (pilot hole) using mud rotary. - Contaldo

06/28/91 Drilled 85'-185' air/foam rotary, used 1200 gallons water, used 1.5 gallons foam.

- Menzie

07/01/91 Drilled 185'-260' air/foam rotary, used 900 gallons water, used 1 gallon foam,

andesite-rich alluvium at 235'. - Menzie

Location	ID.	BLM-27-270	
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07/02/91	Measured water level in open borehole at 231.24' (top of deflector), sounded bottom of borehole at 258.58' (G.S.), bailed about 88 gallons of water from hole and measured water level at 242.90' (T. O. D.), monitored recovery to 239.00' in 32 minutes Menzie
07/03/91	Measured water level in open borehole at 232.85' (T.O.D.). Tripped in to 258' and drilled to 310'. Used 1200 gallons water and 1.5 gallons foam Menzie
07/08/91	Measured water level in open borehole at 232.38' (T.O.D.), drilled air/foam rotary 310'-342', top of tuff bedrock at 340', used 1500 gallons water, used 221.5 gallons foam Menzie
07/09/91	Measured water in open borehole at 246.68' (T.O.D.). Sounded bottom of hole at 343.33' (G.S.). Demobilize air/foam rotary equipment from site Menzie
07/10/91	Run full suite of geophysical logs, measure water level at 239.74' (G.S.), install filler sand to 298' and pump lower benseal plug Menzie
07/11/91	Run 287.53' of casing with 10' screen, install gravel pack, pump upper benseal plug and install filler sand to 223.33 (G.S.) - Menzie
07/12/91	Bail water level down to 278.30' (G.S.) and monitor recovery, pour 1st load of grout to surface Menzie
07/15/91	Bail for initial development (60 gal.), install casing protector Menzie
07/16/91	Set ½ horsepower submersible pump at 272' and begin pumping for development Menzie
07/17/91 - 08/07/91	Continue development by pumping Menzie and Fahey
08/08/91	Complete development and remove submersible pump Fahey